

Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17681 • 757-656-2300 • Fax: 717-656-6766 • www.EurotineitS.com/LanciabsEnv

Partial Report

Sample Description:

Ex. 6 - Personal Privacy

Tetra Tech, Inc. **ELLE Sample #: ELLE Group #:**

Matrix: Water

Ex. 6 - Personal Privacy

Project Name:

Wolverine World Wide Tannery

Submittal Date/Time: Collection Date/Time:

12/29/2017 10:00 12/27/2017 17:23

Ex. 6 - Personal Privacy SDG#:

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. (Organics EPA	537 Version 1.1	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acronym for N-	ethyl perfluorooctanesulfonar	midoacetic Acid.		
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acronym for N	I-methyl perfluorooctanesulfo	namidoacetic Acid.		
14070	Perfluorobutanesulfonate	375-73-5	N.D.	2	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	2	1
14070	Perfluorohexanesulfonate	355-46-4	N.D.	2	1
14070	Perfluorohexanoic acid	307-24-4	N.D.	2	1
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1
14070	Perfluoro-octanesulfonate	1763-23-1	10	2	1
14070	Perfluorooctanoic acid	335-67-1	N.D.	2	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	3	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1
The r	ecovery for PFTeDA and PFHxS in	the laboratory fortified			

blank duplicate (LFBD) is outside of QC acceptance limits as noted on the QC Summary. The data reported should be considered prelimimary as this sample will be re-extracted.

The recovery for internal standard d5-NEtFOSAA is outside of QC acceptance limits. Since native comopunds NMeFOSAA and NEtFOSAA are not detected, the data is reported.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	Full List PFAS - DW	EPA 537 Version 1.1	1	18003005	01/08/2018 04:31	Marissa C Drexinger	1
14070	Full List PFAS - DW	EPA 537 Version 1.1	1	18003005	01/10/2018 18:24	Marissa C Drexinger	1

Sample Description:

Project Name:

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Wolverine World Wide

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Matrix: Water

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Submittal Date/Time: Collection Date/Time: 12/29/2017 10:00

12/27/2017 18:23 SDG#: Ex. 6 - Personal Privacy

CAT Dilution Method Analysis Name **CAS Number** No. Result Factor **Detection Limit** Misc. Organics EPA 537 Version 1.1 ng/l ng/l 14070 **NEtFOSAA** 2991-50-6 N.D. 20 10

Reference ID: 1891712170118105505



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Wolverine World Wide

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Tetra Tech, Inc. **ELLE Sample #: ELLE Group #:**

Matrix: Water

Ex. 6 - Personal Privacy

Submittal Date/Time:

Project Name:

12/29/2017 10:00

Collection Date/Time: 12/27/2017 18:23 SDG#: Ex. 6 - Personal Privacy

	i	!			
CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. (Organics El	PA 537 Version 1.1	ng/l	ng/l	
	NEtFOSAA is the acronym for	N-ethyl perfluorooctanesulfonar	midoacetic Acid.		
14070	NMeFOSAA	2355-31-9	N.D.	20	10
	NMeFOSAA is the acronym for	or N-methyl perfluorooctanesulfo	namidoacetic Acid.		
14070	Perfluorobutanesulfonate	375-73-5	69	20	10
14070	Perfluorodecanoic acid	335-76-2	N.D.	20	10
14070	Perfluorododecanoic acid	307-55-1	N.D.	20	10
14070	Perfluoroheptanoic acid	375-85-9	120	20	10
14070	Perfluorohexanesulfonate	355-46-4	480	20	10
14070	Perfluorohexanoic acid	307-24-4	63	20	10
14070	Perfluorononanoic acid	375-95-1	N.D.	20	10
14070	Perfluoro-octanesulfonate	1763-23-1	7,100	2,000	1000
14070	Perfluorooctanoic acid	335-67-1	1,600	200	100
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	30	10
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	20	10
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	20	10
The I	ecovery for PFTeDA and PFHxs	S in the laboratory fortified			

blank duplicate (LFBD) is outside of QC acceptance limits as noted on the QC Summary. The data reported should be considered prelimimary as this sample will be re-extracted.

Reporting limits were raised due to interference from the sample matrix.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	Full List PFAS - DW	EPA 537 Version 1.1	1	18003005	01/08/2018 09:54	Marissa C Drexinger	10
14070	Full List PFAS - DW	EPA 537 Version 1.1	1	18003005	01/08/2018 10:05	Marissa C Drexinger	100
14070	Full List PFAS - DW	EPA 537 Version 1.1	1	18003005	01/09/2018 23:26	Marissa C Drexinger	1000

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Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 205017

Group Number(s): 1891712

Client: MSG/TETRA TECH

Delivery and Receipt Information

Delivery Method: Fed Ex Arrival Timestamp: 12/29/2017 10:00

Number of Packages: $\underline{4}$ Number of Projects: $\underline{1}$

State/Province of Origin: MI

Samples Intact:

Arrival Condition Summary

Shipping Container Sealed:

Custody Seal Present:

Yes

Sample IDs on COC match Containers:

Yes

Sample Date/Times match COC:

Yes

Custody Seal Intact:

Yes

VOA Vial Headspace ≥ 6mm:

N/A

Custody Sear Intact.

Samples Chilled: Yes Total Trip Blank Qty: 0

Yes

Paperwork Enclosed: Yes Air Quality Samples Present: No

Missing Samples: No Extra Samples: No

Discrepancy in Container Qty on COC: No

Unpacked by Wendy Wakeley (1669) at 11:06 on 12/29/2017

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler#	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	3.6	DT	Wet	Υ	Bagged	N
2	DT146	1.3	DT	Wet	Υ	Bagged	N
3	DT146	0.4	DT	Wet	Υ	Bagged	N
4	DT146	1.0	DT	Wet	Υ	Bagged	N



BMQL

Dry weight

basis

Lancaster Laboratories Environmental

Below Minimum Quantitation Level

Explanation of Symbols and Abbreviations

milligram(s)

The following defines common symbols and abbreviations used in reporting technical data:

DIVIGE	Delow willing addititation bever	nig	mingram(s)
С	degrees Celsius	mL	milliliter(s)
cfu	colony forming units	MPN	Most Probable Number
CP Units	cobalt-chloroplatinate units	N.D.	non-detect
F	degrees Fahrenheit	ng	nanogram(s)
g	gram(s)	NTU	nephelometric turbidity units
IU	International Units	pg/L	picogram/liter
kg	kilogram(s)	RL	Reporting Limit
L	liter(s)	TNTC	Too Numerous To Count
lb.	pound(s)	μg	microgram(s)
m3	cubic meter(s)	μL	microliter(s)
meq	milliequivalents	umhos/cm	micromhos/cm
<	less than		
>	greater than		
ppm		e equivalent to milli	kilogram (mg/kg) or one gram per million grams. For igrams per liter (mg/l), because one liter of water has a weight uivalent to one microliter per liter of gas.
ppb	parts per billion		

mq

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Results printed under this heading have been adjusted for moisture content. This increases the analyte weight

concentration to approximate the value present in a similar sample without moisture. All other results are reported on an

Measurement uncertainty values, as applicable, are available upon request.

as-received basis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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Data Qualifiers

Qualifier	Definition
С	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
Ε	Concentration exceeds the calibration range
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
Р	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised
	due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.